

ELECTROLYTIC CELL FOR THE PRODUCTION OF ALUMINIUM AND A METHOD FOR MAINTAINING A CRUST ON A SIDEWALL AND FOR RECOVERING ELECTRICITY

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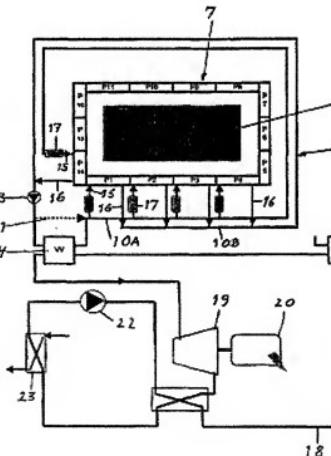
Cited documents:

- US4749463
- EP0047227
- GB2076428

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Abstract of WO0194667

The present invention relates to an electrolytic cell for the production of aluminum comprising an anode and an electrolytic tank where the electrolytic tank comprises an outer shell made from steel and carbon blocks in the bottom of the tank forming the cathode of the electrolytic cells. At least a part of the sidewall of the electrolytic tank consists of one or more evaporation cooled panels, and wherein high temperature, heat resistant and heat insulating material is arranged between the evaporation cooled panels and the steel shell. The invention also includes a method for maintaining a crust on the sidewall of the tank and for recovering heat from the cooling medium inside the panel for transformation into electrical energy.



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